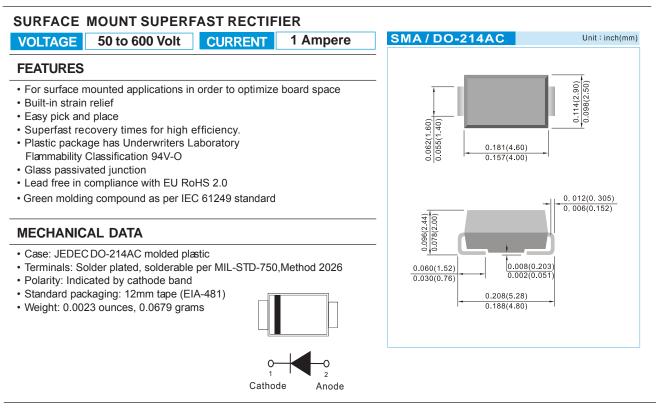
# ES1A~ES1J



#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

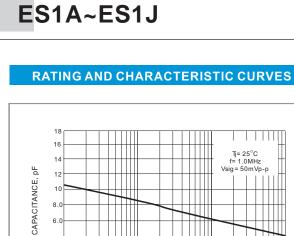
Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

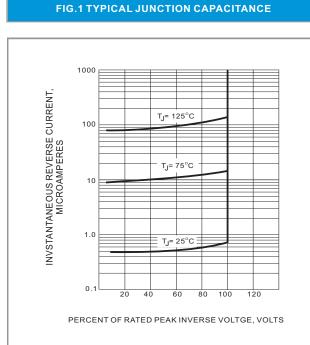
PARAMETER	SYMBOL	ES1A	ES1B	ES1C	ES1D	ES1E	ES1G	ES1J	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	150	200	300	400	600	V
Maximum RMS Voltage		35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage		50	100	150	200	300	400	600	V
Maximum Average Forward Current at $T_L$ =120°C	I <sub>F(AV)</sub>	1						A	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I <sub>fsm</sub>	30							A
Maximum Forward Voltage at 1A	V <sub>F</sub>	0.95			1.25		1.7	V	
Maximum DC Reverse Current at Rated DC Blocking T_=25°C Voltage T_j=100°C	°C I <sub>R</sub>			1 150					μA
Maximum Reverse Recovery Time (Note 1)	t <sub>rr</sub>	35					ns		
Typical Junction Capacitance (Note 2)		7					рF		
Typica Thermal Resistance (Note 3)	R <sub>ejl</sub>	35						°C / W	
Operating Junction and Storage Temperature Range	T_,T <sub>stg</sub>	-55 to +150				°C			

#### NOTES:

- 1. Reverse Recovery Tset Conditions: I\_F=0.5A, I\_R=1.0A, Irr=0.25A
- 2.Measured at 1.0MHz and applied reverse voltage of 4.0 volt

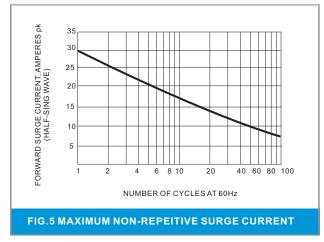
 $3.8.0 \mbox{mm}^2 (\ 0.013 \mbox{mm}$  thick ) land areas.

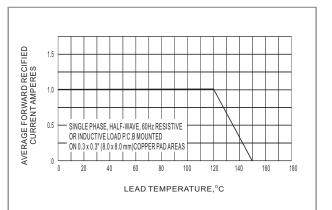




REVERSE VOLTAGE, VOLTS

#### FIG.3 TYPICAL REVERSE CHARACTERISTICS







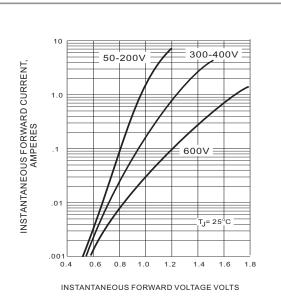


FIG.4 TYPICAL FORWARD CHARACTERISTICS



8.0

6.0

4.0

2.0

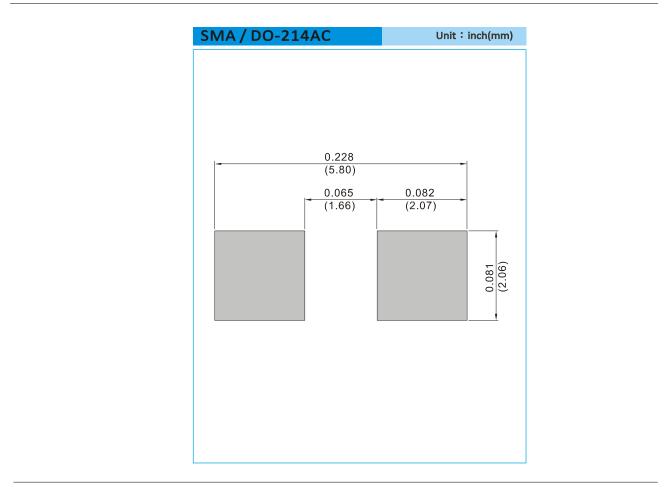
0\_





## ES1A~ES1J

#### MOUNTING PAD LAYOUT



#### **ORDER INFORMATION**

Packing information

T/R - 7.5K per 13" plastic Reel

T/R - 1.8K per 7" plastic Reel





# ES1A~ES1J

### Part No\_packing code\_Version

ES1A\_R1\_00001 ES1A\_R2\_00001

### For example :

RB500V-40\_R2\_00001



- Serial number

• Version code means HF

- Packing size code means 13"
- Packing type means T/R

Packing Code XX				Version Code XXXXX				
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code		
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number		
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number		
Bulk Packing (B/P)	В	13"	2					
Tube Packing (T/P)	т	26mm	X					
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y					
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U					
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D					





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 SKN300/16
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